Computer Science Logo Style. Volume 1: Symbolic Computing. (Second edition). By Brian Harvey. MIT Press, Cambridge, MA. (1997). 318 pages. $85.00 (set of 3 books).

Contents:

Preface. Acknowledgments. 1. Exploration. 2. Procedures. 3. Variables. 4. Predicates. 5. Functions of functions. 6. Example: Tic-Tac-Toe. 7. Introduction to recursion. 8. Practical recursion: The leap of faith. 9. How recursion works. 10. Turtle geometry. 11. Recursive operations. 12. Example: Playfair cipher. 13. Planning. 14. Example: Pitcher problem solver. 15. Debugging. Appendices. A. Running Berkeley Logo. B. GNU General Public License. Index of defined procedures. General index.

Computer Science Logo Style. Volume 2: Advanced Techniques. (Second edition). By Brian Harvey. MIT Press, Cambridge, MA. (1997). 324 pages. $85.00 (set of 3 books).

Contents:

Preface. Acknowledgments. 1. Data files. 2. Example: Finding file differences. 3. Nonlocal exit. 4. Example: Solitaire. 5. Program as data. 6. Example: BASIC compiler. 7. Pattern matcher. 8. Property lists. 9. Example: Doctor. 10. Iteration, control structures, extensibility. 11. Example: Cryptographer's helper. 12. Macros. 13. Example: Fourier series plotter. Appendices. Berkeley Logo Reference Manual. Index of defined procedures. General index.

Computer Science Logo Style. Volume 3: Beyond Programming. (Second edition). By Brian Harvey. MIT Press, Cambridge, MA. (1997). 364 pages. $85.00 (set of 3 books).

Contents:

Preface. Acknowledgments. 1. Automata theory. 2. Discrete mathematics. 3. Algorithms and data structures. 4. Programming language design. 5. Programming language implementation. 6. Artificial intelligence. Appendices. Bibliography. Credits. Index of defined procedures. General index.

American Astronomy: Community, Careers, and Power, 1859–1940. By John Lankford. University of Chicago Press, Chicago. (1997). 447 pages. $65.00 (£51.95).

Contents:

List of tables and figures. Preface. Acknowledgments. Abbreviations. 1. On writing the history of a scientific community. 2. The American astronomical community in 1859: A benchmark. 3. The new astronomy: Identity and conflict. 4. The education of astronomers. 5. The changing scientific career. 6. Career management in science. 7. Power and conflict in a scientific community. 8. The reward system in a modern scientific community. 9. Science and gender: Women in the American astronomical community. 10. *Terminus ad quem*: American astronomy in 1940. 11. Astronomy compared. References. Index.

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Contents:

Foreword. Acknowledgments. About the authors. 1. Introduction. 2. The local telecommunications landscape. 3. Network technology and the demand for access. 4. Regulation and public policy. 5. Retail regulation of local exchange carriers. 6. Interconnection and wholesale competition. 7. Competition in local exchange retail markets. 8. The FCC's local competition order. 9. Local telecommunications regulation and competition in the United Kingdom. 10. Synthesis and conclusions. Glossary. References. Case and regulatory proceeding index. Name index. Subject index.

Specification of Abstract Data Types. By Jacques Loeckx, Hans-Dieter Ehrich and Markus Wolf. Wiley/Teubner, Chichester, U.K./Stuttgart, Germany. 260 pages. $60.00.

Contents:

Preface. I. Introduction. 1. Software design, data types and specification. II. Fundamental tools. 2. Man-sorted algebras. 3. Structuring algebras. 4. Algebras for different signatures. 5. Logic. Bibliographic remarks on Part II. III. Specification-in-the-small. 6. Loose specifications. 7. Initial specifications. 8. Constructive specifications. Bibliographic remarks on Part III. IV. Specification-in-the-large. 9. Specification languages. 10. Modularization and parameterization. 11. A case study. Bibliographic remarks on Part IV. V. Further topics. 12. Further topics. Bibliographic remarks on Part V. References. Symbols. Index.

The Resolution Calculus. By Alexander Leitsch. Springer, Berlin. (1997). 300 pages. DM 58.00, öS 423.40, sFr 51.50.

Contents:

1. Introduction. 2. The basis of the resolution calculus. 3. Refinements of resolution. 4. Redundancy and deletion. 5. Resolution as decision procedure. 6. On the complexity of resolution. References. Notation index. Subject index.